BILL NO. S-91-05-23

SPECIAL ORDINANCE NO. S-136-91

AN ORDINANCE approving the awarding of Reference #1562 by the City of Fort Wayne, Indiana, by and through its Department of Purchasing and **ELLIOTT EQUIPMENT CORP.** for The Traffic Engineering Department.

NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF FORT WAYNE, INDIANA;

SECTION 1. That Reference #1562 between the City of Fort Wayne, by and through its Department of Purchasing and **ELLIOTT EQUIPMENT CORP.** for the Traffic Engineering Department, is hereby ratified, and affirmed and approved in all respects, respectfully for:

> **the purchase of traffic signal supports and hardware for the traffic signal modernization project at Bluffton Rd. and Sandpoint Rd; the new signal installation at Goshen Rd. and Independence Dr. and the widening of the new intersection of Bluffton Rd. and Lower Huntington Rd.;**

involving a total cost of Twenty-Two Thousand Ninety-Six and no/100 Dollars ($22,096.00).

SECTION 2. Prior Approval has been requested from Common Council on **May 28, 1991.** Two copies of said Reference are on file with the Office of the City Clerk and made available for public inspection, according to law.

SECTION 3. That this Ordinance shall be in full force and effect from and after its passage and any and all necessary approval by the Mayor.

Mark C. GiaQuinta
Councilmember

APPROVED AS TO FORM
AND LEGALITY

J. Timothy McCaulay
J. Timothy McCaulay, City Attorney

THE CITY OF FORT WAYNE

May 20, 1991

The Common Council
Fort Wayne IN

RE: Reference No. 1562

Gentleman and Mrs. Bradbury:

The Department of Purchases respectfully requests "Prior Approval" of Reference No. 1562, with respect to the purchase of traffic signal supports and hardware for the Traffic Engineering Dept. Delivery of aluminum poles is 6-8 weeks. The Signal Division needs to relocate traffic signal poles at Bluffton Rd. and Lower Huntington Rd. before the Contractor can complete the widening of the intersection. The Contractor has a completion date of July 31, 1991 and we are requesting a "Prior Approval" in order to meet this completion date. The cost reflects the lowest and most responsive of two (2) vendors and should be awarded to Elliott Equipment Corp. in the amount of $22,096.00. This will be assigned a purchase order number upon Councilmanic Approval.

DEPARTMENT OF PURCHASES

Phillip Brent Myers

CITY OF FORT WAYNE

Paul Helmke, Mayor

APPROVED:

ATTEST:

Sandra Kennedy, City Clerk

Attachment

REFERENCE NO.	1562	
DEPARTMENT:	TRAFFIC ENGINEERING DEPT.	
DATE:	5-20-91	
ITEM/SERVICE:	SIGNAL POLES AND HARDWARE	
PURCHASING INFORMATION		
ADVERTISED BID:	YES	
DATES ADVERTISED:	4-12-91 AND 4-19-91	
OPENING DATE:	5-2-91	
WRITTEN QUOTE:	NO	
DUE DATE:		
VERBAL QUOTE:	NO	
SINGLE SOURCE:	NO	
NO. OF VENDORS NOTIFIED:	10	
NO. OF VENDORS RECEIVING BID/QUOTE	7	
NO. OF VENDORS RETURNING BID/QUOTE:	2	
NO. OF VENDORS DISQUALIFIED:	0	
NO. OF VENDORS NOT RESPONDING:	5	
DATE SENT TO DEPT FOR RECOMM:	5-17-91	
DATE RECOMM RECEIVED IN PURCH:	5-20-91	
COUNCIL INFORMATION	DATES SENT	EXTENSION DATES
DATE INFO SENT TO LAW DEPT:	5-21-91	
INTRODUCTION DATE:	5-28-91	
DISCUSSION DATE:	6-4-91	
PASSAGE DATE:	6-11-91	
ORDINANCE NO.:		

REFERENCE NO. 1562
TRAFFIC SUPPORTS
5-8-91

DESCRIPTION	QTY	UNIT	PERFERRED PRODUCTS		ELLIOTT EQUIP	
30' STEEL STRAIN POLE	4	EA	$2,800.00	$11,200.00	$2,510.00	$10,040.00
SPARE POLE BANDS	24	EA	$40.00	$960.00	$37.00	$888.00
ALUMINUM SIGNAL SUPPORT 30' MAST ARM SHAFT	1	EA	$655.00	$655.00	$640.00	$640.00
ALUMINUM SIGNAL SUPPORT 35' MAST ARM	1	EA	$2,035.00	$2,035.00	$1,950.00	$1,950.00
ALUMINUM SIGNAL SUPPORT TWIN 30'-25' MAST ARMS	1	EA	$2,585.00	$2,585.00	$2,494.00	$2,494.00
ALUMINUM SIGNAL SUPPORT 25' MAST ARM	1	EA	$1,275.00	$1,275.00	$1,234.00	$1,234.00
ALUM COMBO TRAFFIC SUP	1	EA	$2,660.00	$2,660.00	$2,574.00	$2,574.00
1" ALUM BKWY COUPLINGS	50	EA	$28.80	$1,440.00	$27.90	$1,395.00
ALUM HANDHOLE COVER 4" X 8"	18	EA	$5.50	$99.00	$5.25	$94.50
ALUMINUM HANDHOLE COVER 4" X 6"	6	EA	$5.50	$33.00	$5.25	$31.50
STEEL ANCHOR BOLT	50	EA	$8.50	$425.00	$8.20	$410.00
GALVANIZED STEEL HEX HEAD BOLT	100	EA	$3.50	$350.00	$3.05	$305.00
ALUM SPACER SHIMS	100	EA	$0.38	$38.00	$0.40	$40.00
TOTAL				$23,755.00		$22,096.00
DELIVERY			STEEL POLES 12-14 WKS ALUM POLES 7-8 WKS		STEEL 12 WKS ARO ALUM 6-8 WKS ARO	

FRONT PAGE/INVITATION TO BID
DEPARTMENT OF PURCHASING
CITY OF FORT WAYNE, ALLEN COUNTY, INDIANA
ONE MAIN STREET - ROOM 350
PHONE 219-427-1101

BID OPENING DATE 5-2-91 @ 11:00 AM BID REFERENCE # 1562

SEALED BIDS SHOULD BE DELIVERED TO DEPARTMENT OF PURCHASING, ROOM 350, CITY-COUNTY BUILDING UP TO 11:00 A.M. ON OR BEFORE OPENING DATE.

SEALED BIDS WILL BE OPENED PUBLICLY AT 11:01 A.M. IN THE BOARD OF WORKS & SAFETY CONFERENCE ROOM ON THE THIRD FLOOR OF THE CITY-COUNTY BUILDING. "NO LATE BIDS WILL BE ACCEPTED AFTER 11:00 A.M. FOR ANY REASON WHATSOEVER".

THIS INVITATION FOR BID IS FOR STANDARD TRAFFIC SUPPORTS PER SPECIFICATIONS

AND REQUESTED BY TRAFFIC ENGINEERING

THIS BID REQUIRES A XXX 5% BID BOND, CERTIFIED OR CASHIER'S CHECK OF ALL BIDDERS.

THIS BID REQUIRES A ________ 100% PERFORMANCE BOND OF SUCCESSFUL BIDDER(S).

PROMPT PAYMENT DISCOUNTS WILL BE ALLOWED AS FOLLOWS: ________% IF PAID WITHIN ________ DAYS.

THIS INVITATION IS ISSUED TO ESTABLISH A CONTRACT TO SUPPLY THE CITY OF FORT WAYNE WITH A COMMODITY OR SERVICE IN ACCORDANCE WITH ACCOMPANYING SPECIFICATIONS.

THE EXECUTION HEREOF BY THE BIDDER IS ACCEPTANCE OF ALL TERMS AND CONDITIONS HEREIN AND IN THAT REGARD THE BIDDER AGREES TO BE BOUND BY SAME AND BE BOUND TO THE AMOUNT OF HIS/HER BID FOR A PERIOD OF NINETY (90) DAYS.

FIRM NAME Elliott Equipment Corp.

STREET ADDRESS 1131 Country Club Road

CITY Indpls PHONE # 317-271-3065

BY Robert C Elliott
REPRESENTATIVE SIGNATURE

PRICE SHEET

QTY	UNIT	DESCRIPTION/ITEM	UNIT	/ EXTENSIC
4	EA	8000 LBS 30' STEEL STRAIN POLE dwg 8000-30-I	$ 2510.00	10,040.
24	EA	SPARE POLE BANDS FOR STRAIN POLES-8 TOP(CATENARY) 8 MID(MAIN SPAN), 8 BOTTOM(TETHER) dwg S-7001-A	37.00	880.
1	EA	ALUMINUM STANDARD TRAFFIC SIGNAL SUPPORT FOR A 30' MAST ARM-SHAFT ONLY WITH POLE CAP AND BOLT COVERS dwg B 58577	640.00	640.
1	EA	ALUMINUM STANDARD TRAFFIC SIGNAL SUPPORT W/35' MAST ARM dwg B 58578	1950.00	1,950.
1	EA	ALUMINUM STANDARD TRAFFIC SIGNAL SUPPORT W/TWIN (30'-25') MAST ARMS dwg B 57766	2494.00	2,494.
1	EA	ALUMINUM STANDARD TRAFFIC SIGNAL SUPPORT W/25' MAST ARM dwg B 58577	1234.00	1,234.
1	EA	ALUMINUM COMBINATION LIGHT-TRAFFIC SUPPORT W/35' TRAFFIC MAST ARM 8' SINGLE MEMBER LUMINAIRE ARM, 35' MOUNTING HEIGHT (LESS LUMINAIRE ARM) dwg B 58488	2574.00	2,574.
50	EA	ONE INCH ALUMINUM BREAKAWAY COUPLINGS	27.90	1,395.
18	EA	4"X8" ALUMINUM HANDHOLE COVER W/TWO (2) STAINLESS STEEL SCREWS	5.25	94.
6	EA	4"X6" ALUMINUM HANDHOLE COVER W/TWO (2) STAINLESS STEEL SCREWS	5.25	31.
50	EA	1"X4' STEEL ANCHOR BOLT W/4" "L" BEND ON THE UNTHREADED END	8.20	410.
100	EA	GALVANIZED 1" DIAMETER X 2 1/2" LONG STEEL HEX-HEAD BOLT WITH (1) LOCKWASHER AND (1) FLATWASHER PER EACH (FOR BREAKAWAY COUPLINGS)	3.05	305.
100	EA	1/16" ALUMINUM, HORSE-SHOE SHAPED, SPACER SHIMS	.40	40.

FOB: FORT WAYNE — TOTAL: $ 22,088.0

DELIVERY TIME: Alum 6-8 weeks ARO
Steel 12 weeks ARO

Ætna LIFE & CASUALTY

BID BOND

THE ÆTNA CASUALTY AND SURETY COMPANY
Hartford, Connecticut 06115

Bond No.

KNOW ALL MEN BY THESE PRESENTS,

That we, Elliott Equipment Corporation, Indianapolis, IN

as Principal, hereinafter called the Principal, and

THE ÆTNA CASUALTY AND SURETY COMPANY, of Hartford, Connecticut, a corporation duly organized under the laws of the State of Connecticut, as Surety, hereinafter called the Surety, are held and firmly bound unto

Dept. of Purchasing
City of Fort Wayne
1 Main Street, Room 350
Ft. Wayne, IN

as Obligee, hereinafter called the Obligee, in

the sum of 5% of amount bid Dollars

($), for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for Standard Traffic Supports

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal and the Principal shall enter into a Contract with the Obligee in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bond or bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with another party to perform the Work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this 2nd day of May ,19 91 .

Barbara K. Elliott
(Witness)

Elliott Equipment Corporation
(Principal) (Seal)

by: Marian J Elliott CEO
(Title)

Dianna L. Phelps
(Witness)

THE ÆTNA CASUALTY AND SURETY COMPANY

By Michael C Ehrman
(Attorney-in-Fact)

James D. Sorg
Michael C. Ehrman

AIA DOCUMENT A310
BID BOND
FEBRUARY 1970 ED.
THE AMERICAN INSTITUTE OF ARCHITECTS

(S-1869-G) 10-70

CAT. 227641
PRINTED IN U.S.A.

Ætna
LIFE & CASUALTY

THE ÆTNA CASUALTY AND SURETY COMPANY
Hartford, Connecticut 06115

POWER OF ATTORNEY AND CERTIFICATE OF AUTHORITY OF ATTORNEY(S)-IN-FACT

KNOW ALL MEN BY THESE PRESENTS, THAT THE ÆTNA CASUALTY AND SURETY COMPANY, a corporation duly organized under the laws of the State of Connecticut, and having its principal office in the City of Hartford, County of Hartford, State of Connecticut, hath made, constituted and appointed, and does by these presents make, constitute and appoint James D. Sorg or Michael C. Ehrman - -

of Indianapolis, Indiana, its true and lawful Attorneys-in-Fact, with full power and authority hereby conferred to sign, execute and acknowledge, at any place within the United States, or, if the following line be filled in, within the area there designated ______, the following instrument(s):

by his sole signature and act, any and all bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any and all consents incident thereto not exceeding the sum of TWO HUNDRED FIFTY THOUSAND ($250,000.00) DOLLARS -

and to bind THE ÆTNA CASUALTY AND SURETY COMPANY, thereby as fully and to the same extent as if the same were signed by the duly authorized officers of THE ÆTNA CASUALTY AND SURETY COMPANY, and all the acts of said Attorneys-in-Fact, pursuant to the authority herein given, are hereby ratified and confirmed.

This appointment is made under and by authority of the following Standing Resolutions of said Company which Resolutions are now in full force and effect:

VOTED: That each of the following officers: Chairman, Vice Chairman, President, Any Executive Vice President, Any Senior Vice President, Any Vice President, Any Assistant Vice President, Any Secretary, Any Assistant Secretary, may from time to time appoint Resident Vice Presidents, Resident Assistant Secretaries, Attorneys-in-Fact, and Agents to act for and on behalf of the Company and may give any such appointee such authority as his certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors may at any time remove any such appointee and revoke the power and authority given him.

VOTED: That any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the Chairman, the Vice Chairman, the President, an Executive Vice President, a Senior Vice President, a Vice President, an Assistant Vice President or by a Resident Vice President, pursuant to the power prescribed in the certificate of authority of such Resident Vice President, and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary or by a Resident Assistant Secretary, pursuant to the power prescribed in the certificate of authority of such Resident Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact pursuant to the power prescribed in his or their certificate or certificates of authority.

This Power of Attorney and Certificate of Authority is signed and sealed by facsimile under and by authority of the following Standing Resolution voted by the Board of Directors of THE ÆTNA CASUALTY AND SURETY COMPANY which Resolution is now in full force and effect:

VOTED: That the signature of each of the following officers: Chairman, Vice Chairman, President, Any Executive Vice President, Any Senior Vice President, Any Vice President, Any Assistant Vice President, Any Secretary, Any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached.

IN WITNESS WHEREOF, THE ÆTNA CASUALTY AND SURETY COMPANY has caused this instrument to be signed by its Assistant Vice President, and its corporate seal to be hereto affixed this 8th day of October, 1986

THE ÆTNA CASUALTY AND SURETY COMPANY

By *Joseph P. Kiernan*
Joseph P. Kiernan
Assistant Vice President

State of Connecticut } ss. Hartford
County of Hartford

On this 8th day of October, 1986, before me personally came JOSEPH P. KIERNAN to me known, who, being by me duly sworn, did depose and say: that he is Assistant Vice President of THE ÆTNA CASUALTY AND SURETY COMPANY, the corporation described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; and that he executed the said instrument on behalf of the corporation by authority of his office under the Standing Resolutions thereof.

George A. Perry, Jr.
My commission expires March 31, 1991 Notary Public
George A. Perry, Jr.

CERTIFICATE

I, the undersigned, Secretary of THE ÆTNA CASUALTY AND SURETY COMPANY, a stock corporation of the State of Connecticut, DO HEREBY CERTIFY that the foregoing and attached Power of Attorney and Certificate of Authority remains in full force and has not been revoked; and furthermore, that the Standing Resolutions of the Board of Directors, as set forth in the Certificate of Authority, are now in force.

Signed and Sealed at the Home Office of the Company, in the City of Hartford, State of Connecticut. Dated this 29th day of April, 1991

By *John W. Welch*
John W. Welch, Secretary

S-1921-01 (M) 12-72

PRINTED IN U.S.A.

Prescribed by the State Board of Accounts

Form No. 95 (Revised 1987)

BID, OFFER OR PROPOSAL FOR SALE OR LEASE OF MATERIALS

(Defined at I.C. 36-1-2-9.5)
(Please type or print)

Date: 4-26-91

1. Governmental Unit: City of Ft. Wayne
2. County: Allen
3. Bidder (Firm): ~~Elliott Equipment Corp~~
   Address: ~~1131 Country Club Road~~
   City/State: Indpls, IN 46234
4. Telephone Number: 317-271-3065
5. Agent of Bidder (if applicable):

Pursuant to notices given, the undersigned offers bid(s) to City Ft. Wayne (Governmental Unit) in accordance with the following attachment(s) which specify the class or item number or description, quantity, unit, unit price and total amount.

The contract will be awarded by classes or items, in accordance with specifications. Any changes or alterations in the items specified will render such bid void as to that class or item. Bidder promises that he has not offered nor received a less price than the price stated in his bid for the materials included in said bid. Bidder further agrees that he will not withdraw his bid from the office in which it is filed. A certified check or bond shall be filed with each bid if required, and liability for breach shall be enforceable upon the contract, the bond or certified check or both as the case may be.

Robert C Elliott
Signature of Bidder or Agent

BID OFFER OR PROPOSAL

Attach separate sheet listing each item bid based on specifications published by governing body. Following is an example of the bid format:

Class or Item	Quantity	Unit	Description	Unit Price	Amount

NON-COLLUSION AFFIDAVIT

STATE OF INDIANA)
) SS:
~~Marion~~ COUNTY)

The undersigned bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporation has, have or will receive directly or indirectly, any rebate, fee, gift, commission or thing of value on account of such sale.

Elliott Equipment Corp
Bidder (Firm)

Robert C Elliott
Signature of Bidder or Agent

Subscribed and sworn to before me this 26 day of April, 19 91.

My Commission Expires: Oct. 22, 1994

Barbara K. Elliott
Notary Public

County of Residence: Marion

Barbara K. Elliott
Notary Public Printed Name

ACCEPTANCE

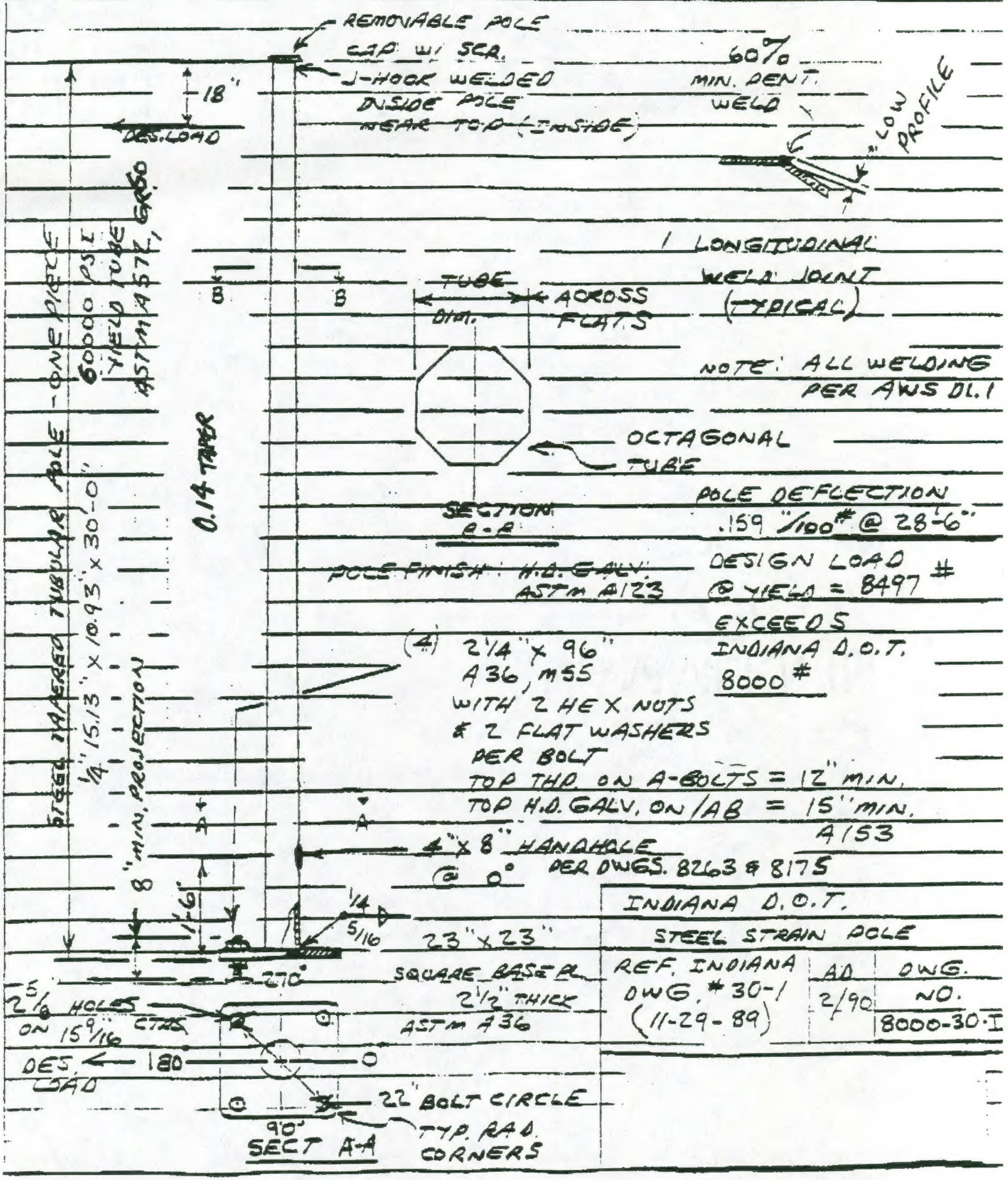
There now being sufficient unobligated appropriated funds available, the contracting authority of ________ (Governmental Unit) hereby accepts the terms of the attached bid for classes or items numbered ________ and promises to pay the undersigned bidder upon delivery the price quoted for the materials stipulated in said bid.

Date:

Contracting Authority Members:

SUMMIT MANUFACTURING. INC.
Kiwanis Blvd., Valmont Industrial Park
HAZLETON, PA 18201
(717) 454-8730
FAX (717) 454-5946

SHEET NO ______ OF ______
CALCULATED BY ______ DATE ______
CHECKED BY ______ DATE ______
SCALE ______



SUMMIT MANUFACTURING INC.
225 Kiwanis Blvd., Valmont Industrial Park
WEST HAZLETON, PENNSYLVANIA 18201
(717) 454-8730
FAX (717) 454-5946

JOB
SHEET NO. 1 OF 1
CALCULATED BY A. DISIMONE, P.E. DATE 7-13-90
CHECKED BY DATE
SCALE

DEFLECTION CALCULATION
INDIANA DWG. 30-1

SUMMIT MFG.
DWG.
8000-30-I

$$\Delta = \frac{288\,P\,H^3}{E}\left[\frac{1}{I_B} + \frac{1}{I_M}\right]$$

$P = 100^{\#}$ @ DESIGN LOAD POSITION
$H = 28'-6'' = 28.5'$
$E = 30(10)^6$ PSI (MOD. OF ELASTICITY OF STEEL)

I_B = MOM. OF INERTIA @ BASE

I_M = MOM. OF INERTIA @ MID-POINT OF POLE

POLE TUBE SIZE 1/4 - 15.13'' X 10.93'' X 30' OCTAGONAL

$I = 3.5\,R^3 t$

$I_B = 3.5(7.44)^3(.25) = 360.4\ IN^4$

$I_M = 3.5(6.39)^3(.25) = 228.3\ IN^4$

$$\Delta = \frac{288(100)(28.5)^3}{E}\left[\frac{1}{360.4} + \frac{1}{228.3}\right]$$

$\Delta = .159''/100^{\#} < .16$ OK

CHECK $8000^{\#}$ LOAD @ YIELD (60000 PSI)

$\frac{6000}{\sqrt{60000}} = 24.5$ OK

$\frac{b}{t} = \frac{(3.08)(2)}{.25} = 24.6$ SAY OK

OK COMPACT

$$f_b = \frac{8000\,[28.5]\,(12)}{(3.5)(7.44)^2(.25)} = 56489\ PSI < 60000 \quad 94\%$$

OK FOR COMPACT TUBE A572, GR. 60 OR A607, GR. 60
SINCE STRESS IS ONLY 94%

SUMMIT MANUFACTURING INC.
225 Kiwanis Blvd., Valmont Industrial Park
WEST HAZLETON, PENNSYLVANIA 18201
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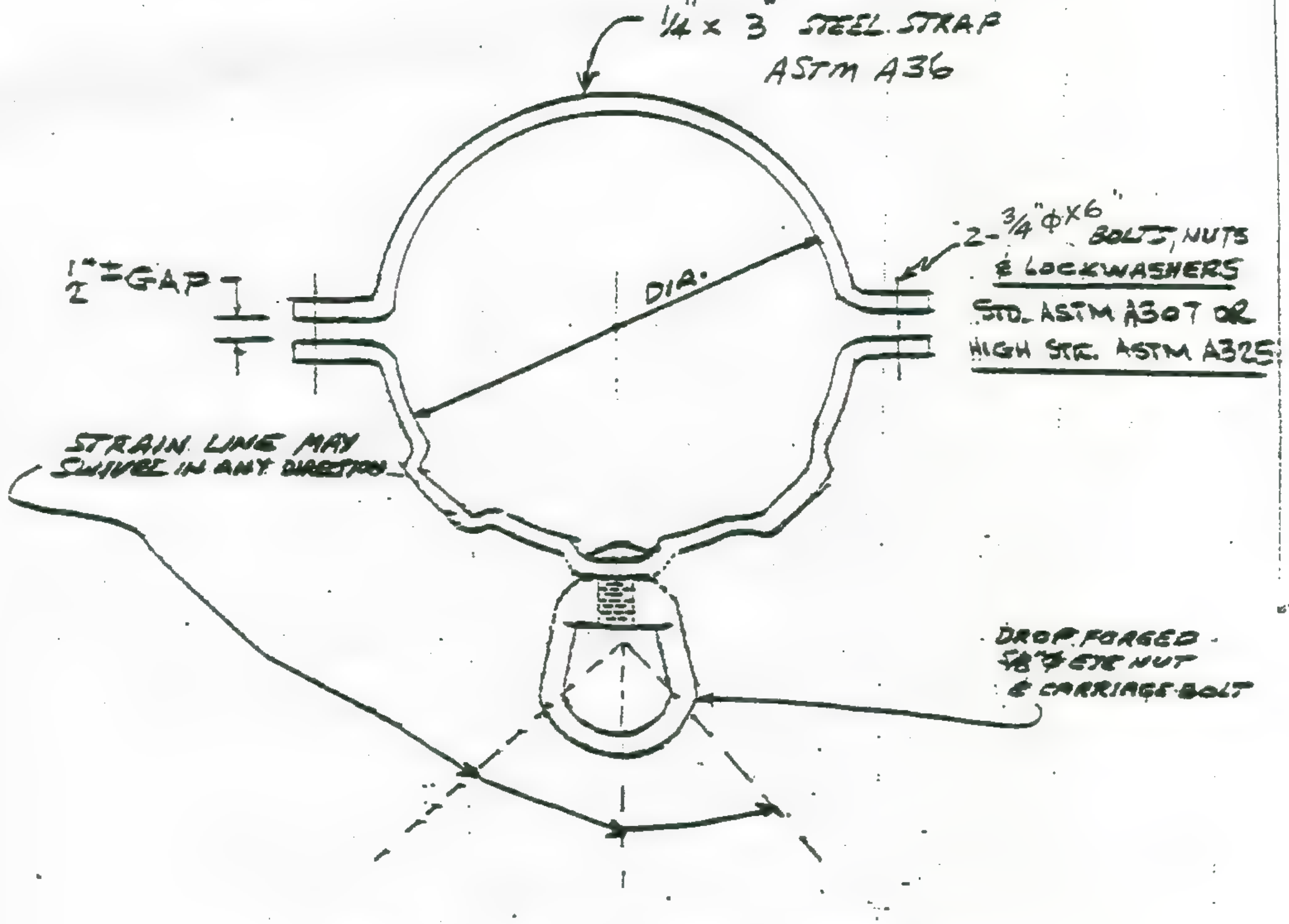


SPAN WIRE CLAMP - MODEL - 7001

MATERIAL: - STEEL
FINISH: - GALVANIZED A123
A153 ON BOLTS

RATED @ 12500# @ TENSILE

TITLE Model 7001 Span Wire Clamp.	DATE	PRINTS	REVISIONS	CONTR.
PROJECT				
LOCATION				DRG.
				S-7001-A

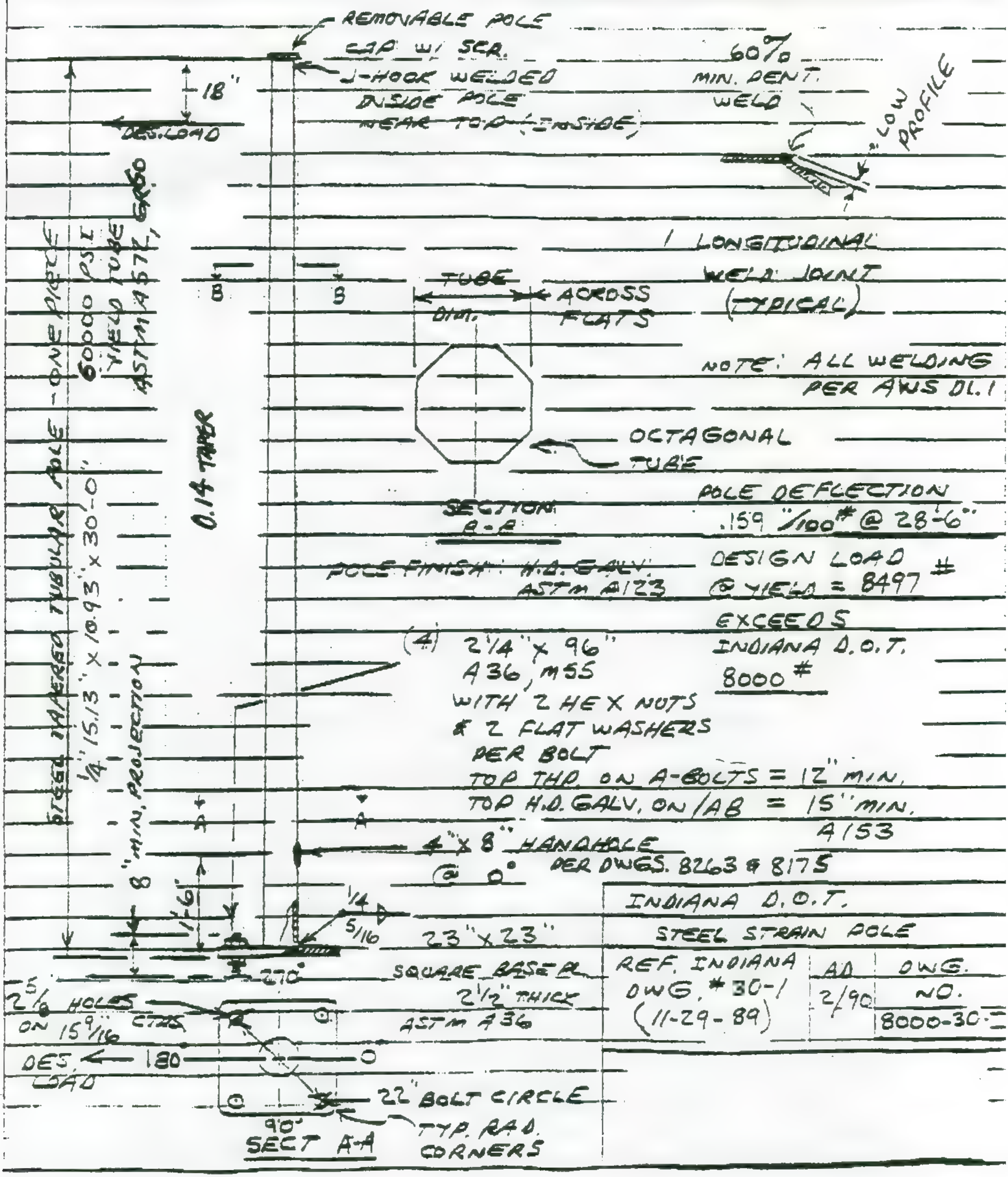
SUMMIT MANUFACTURING, INC.
Kiwanis Blvd., Valmont Industrial Park
HAZLETON, PA 18201
(717) 454-8730
FAX (717) 454-5946

SHEET NO. ______ OF ______

CALCULATED BY ______ DATE ______

CHECKED BY ______ DATE ______

SCALE ______



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225 Kiwanis Blvd., Valmont Industrial Park
WEST HAZLETON, PENNSYLVANIA 18201
(717) 454-8730
FAX (717) 454-5946

JOB

SHEET NO. 1 OF 1

CALCULATED BY A.DISIMONE,P.E. DATE 7-13-90

CHECKED BY DATE

SCALE

DEFLECTION CALCULATION
INDIANA DWG. 30-1

SUMMIT MFG.
DWG.
8000-30-I

$$\Delta = \frac{288 P H^3}{E}\left[\frac{1}{I_B} + \frac{1}{I_M}\right]$$

$P = 100^{\#}$ @ DESIGN LOAD POSITION
$H = 28'-6'' = 28.5'$
$E = 30(10)^6$ PSI (MOD. OF ELASTICITY OF STEEL)

I_B = MOM. OF INERTIA @ BASE

I_M = MOM. OF INERTIA @ MID-POINT OF POLE

POLE TUBE SIZE 1/4 - 15.13" X 10.93" X 30' OCTAGONAL

$I = 3.5 R^3 t$

$I_B = 3.5(7.44)^3(.25) = 360.4 \text{ IN}^4$

$I_M = 3.5(6.39)^3(.25) = 228.3 \text{ IN}^4$

$$\Delta = \frac{288(100)(28.5)^3}{E}\left[\frac{1}{360.4} + \frac{1}{228.3}\right]$$

$\Delta = .159 \, ''/100^{\#} < .16$ OK

CHECK $8000^{\#}$ LOAD @ YIELD (60000 PSI)

$$f_b = \frac{8000[28.5](12)}{(3.5)(7.44)^2(.25)} = 56489 \text{ PSI} < 60000$$ } 94%

$\frac{6000}{\sqrt{60000}} = 24.5$ ↘ OK
$\frac{b}{t} = \frac{(3.08)(2)}{.25} = 24.6$

OK COMPACT

SAY OK FOR COMPACT TUBE A572, GR.60 OR A607, GR.60 SINCE STRESS IS ONLY 94%

SUMMIT MANUFACTURING INC.
225 Kiwanis Blvd., Valmont Industrial Park
WEST HAZLETON, PENNSYLVANIA 18201
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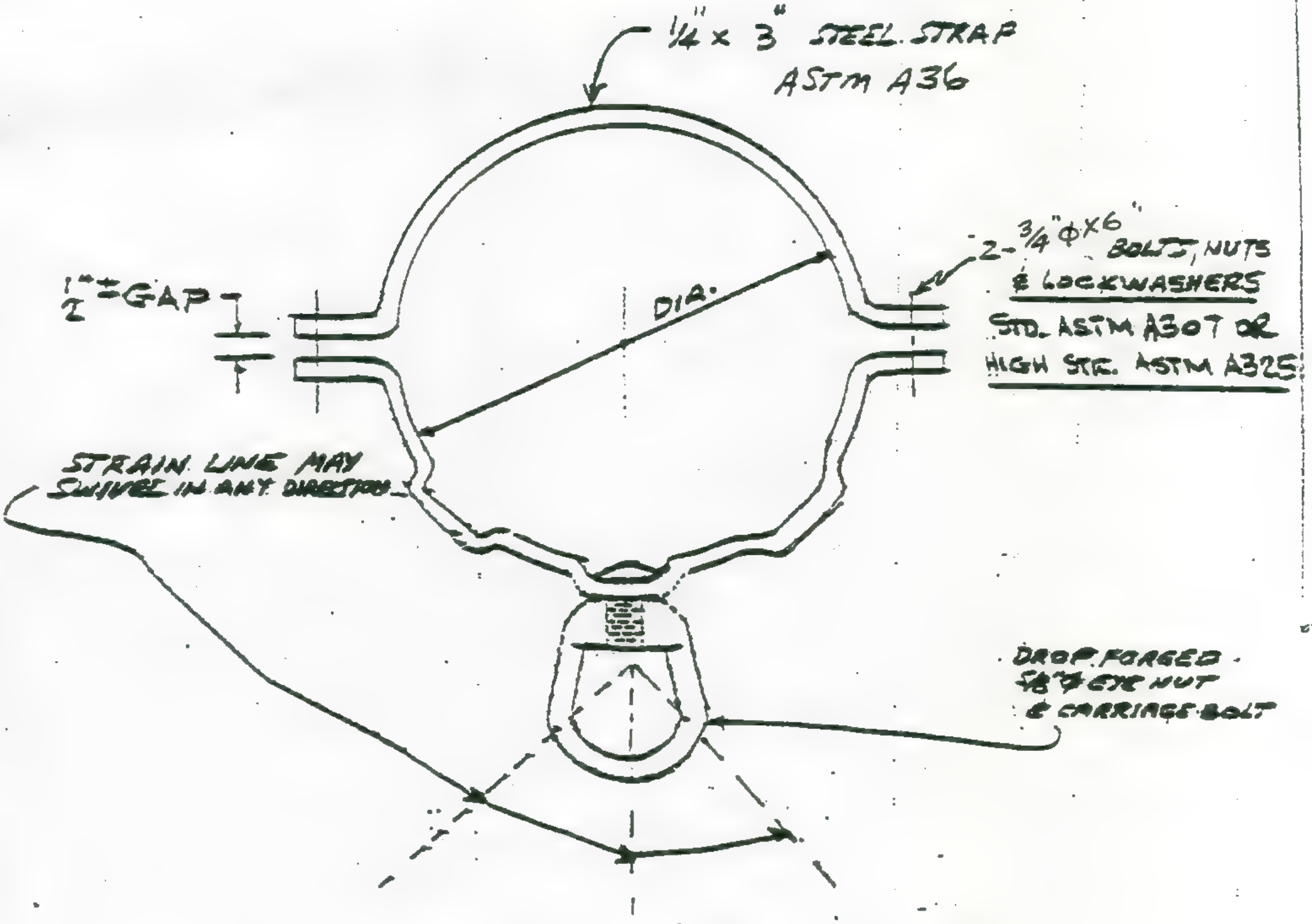

SPAN WIRE CLAMP - MODEL - 7001

MATERIAL :- STEEL
FINISH :- GALVANIZED A123
A153 ON BOLTS

RATED @ 12500# @ TENSILE

TITLE Model 7001 Span Wire Clamp.	DATE	PRINTS	REVISIONS	CONTR.
PROJECT				
LOCATION				DRG.
				S-7001-A

SUMMIT MANUFACTURING. INC.
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HAZLETON. PA 18201
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SHEET NO. ______ OF ______

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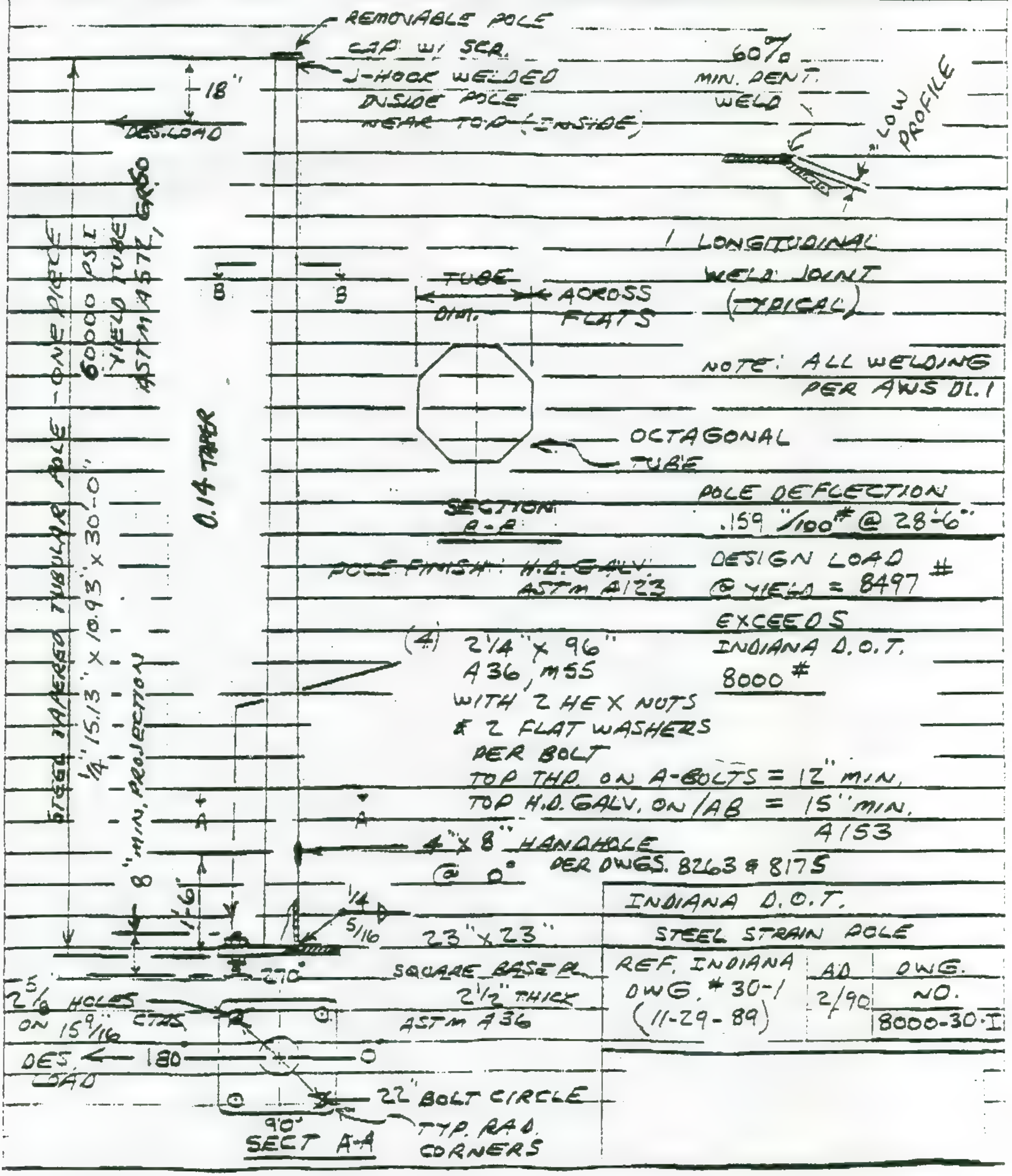
CHECKED BY ______ DATE ______

SCALE ______



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SHEET NO. 1 OF 1
CALCULATED BY A. DISIMONE, P.E. DATE 7-13-90
CHECKED BY ______ DATE ______
SCALE ______

DEFLECTION CALCULATION
INDIANA DWG. 30-1

SUMMIT MFG. DWG. 8000-30-I

$$\Delta = \frac{288 P H^3}{E}\left[\frac{1}{I_B} + \frac{1}{I_M}\right]$$

P = 100# @ DESIGN LOAD POSITION
H = 28'-6'' = 28.5'
E = $30(10)^6$ PSI (MOD. OF ELASTICITY OF STEEL)

I_B = MOM. OF INERTIA @ BASE

I_M = MOM. OF INERTIA @ MID-POINT OF POLE

POLE TUBE SIZE 1/4 - 15.13'' X 10.93'' X 30' OCTAGONAL

$$I = 3.5 R^3 t$$

$$I_B = 3.5(7.44)^3(.25) = \underline{360.4}\ IN^4$$

$$I_M = 3.5(6.39)^3(.25) = \underline{228.3}\ IN^4$$

$$\Delta = \frac{288(100)(28.5)^3}{E}\left[\frac{1}{360.4} + \frac{1}{228.3}\right]$$

$$\Delta = \frac{.159''}{100\#} < .16 \quad OK$$

CHECK 8000# LOAD @ YIELD (60000 PSI)

$$\frac{6000}{\sqrt{60000}} = 24.5$$

$$\frac{b}{t} = \frac{(3.08)(2)}{.25} = 24.6$$

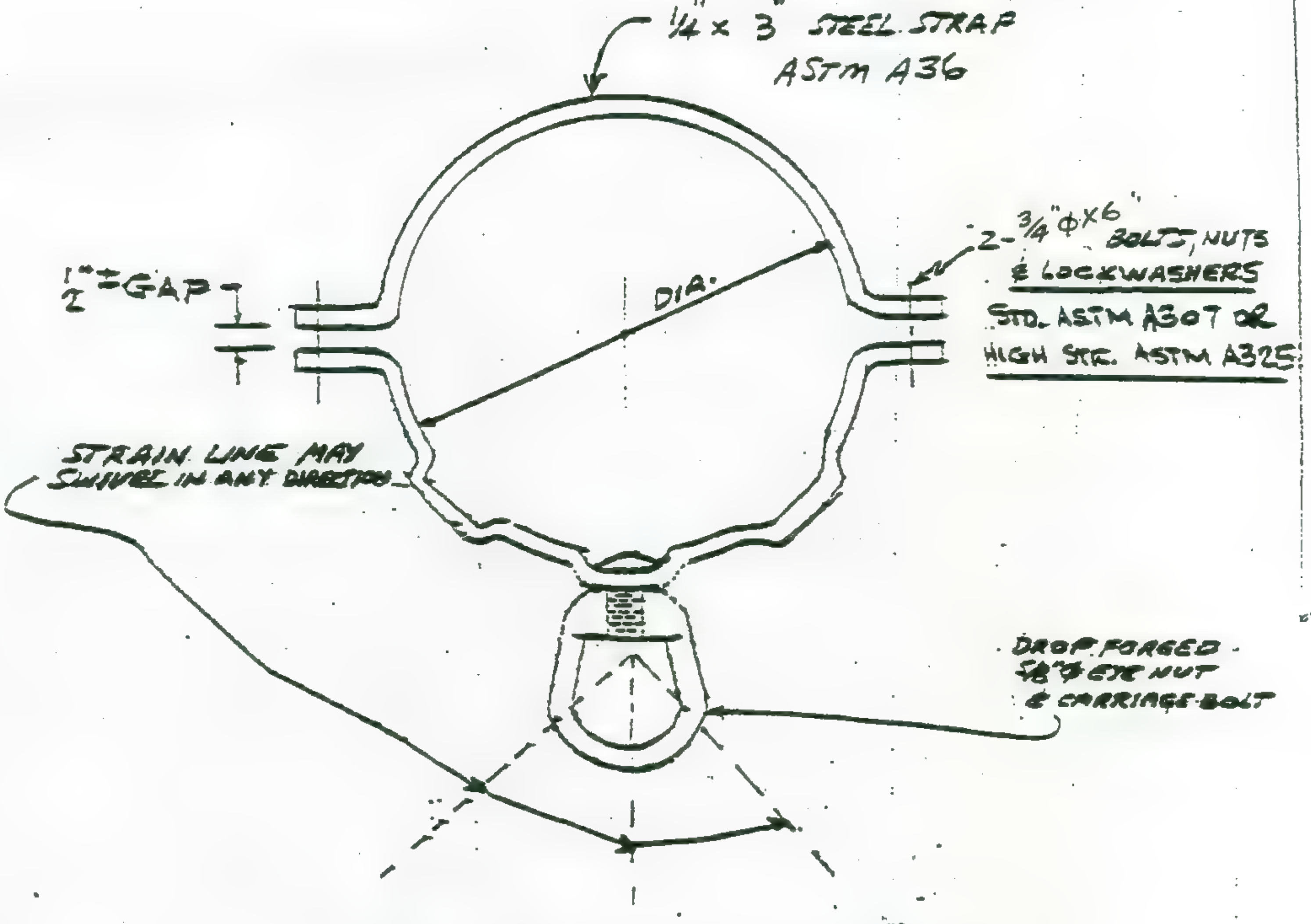
OK

$$f_b = \frac{8000[28.5](12)}{(3.5)(7.44)^2(.25)} = 56489\ PSI < 60000 \quad 94\%$$

OK COMPACT

SAY OK FOR COMPACT TUBE A572, GR. 60 OR A607, GR. 60
SINCE STRESS IS ONLY 94%

SUMMIT MANUFACTURING INC.
225 Kiwanis Blvd., Valmont Industrial Park
WEST HAZLETON, PENNSYLVANIA 18201
(717) 454-8730
FAX (717) 454-5946

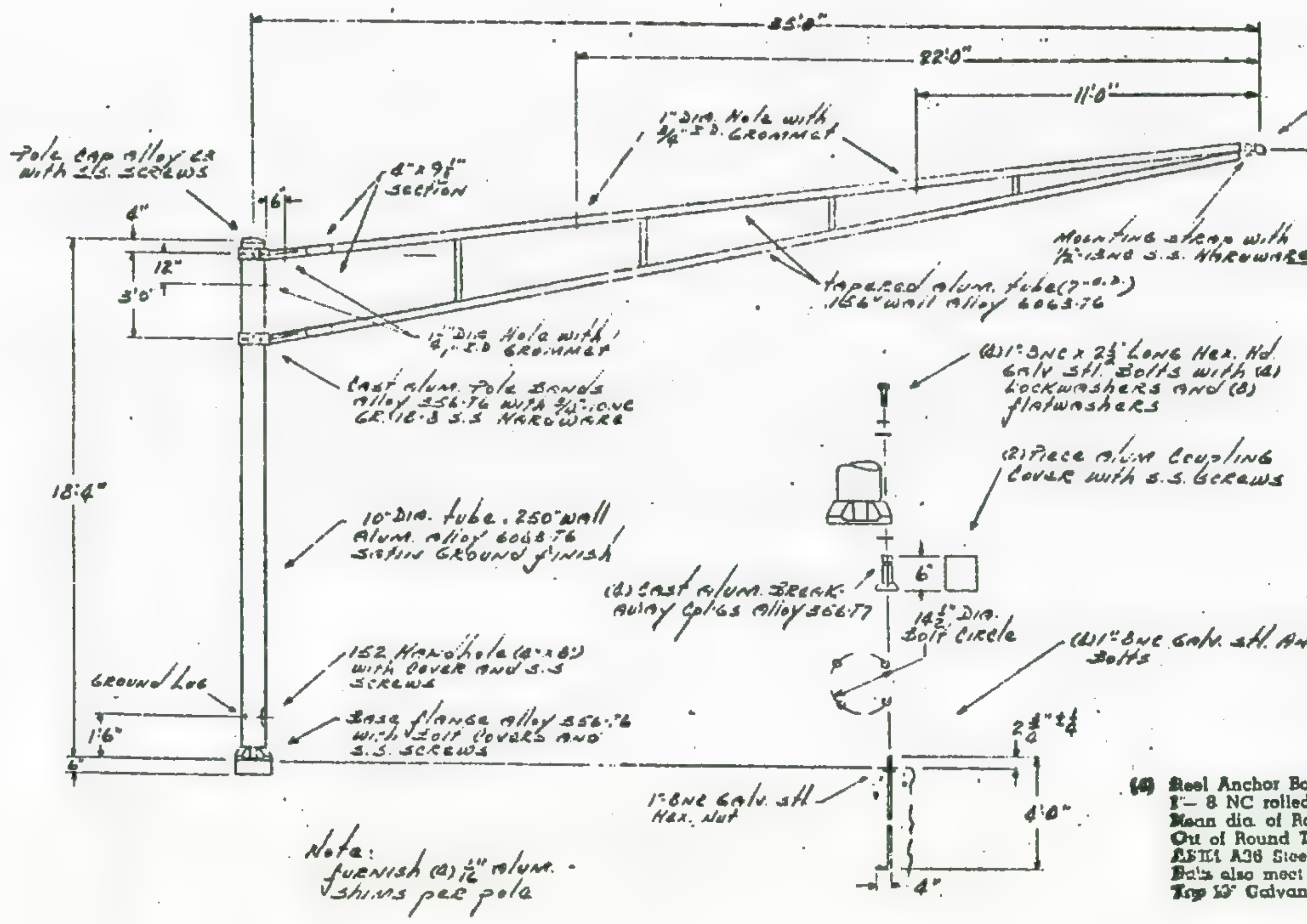


SPAN WIRE CLAMP - MODEL - 7001

MATERIAL :- STEEL
FINISH :- GALVANIZED A123
A153 ON BOLTS

RATED @ 12500# @ TENSILE

TITLE MODEL 7001 SPAN WIRE CLAMP.	DATE	PRINTS	REVISIONS	CONTR.
PROJECT				
LOCATION				DRG.
				S-7001-A



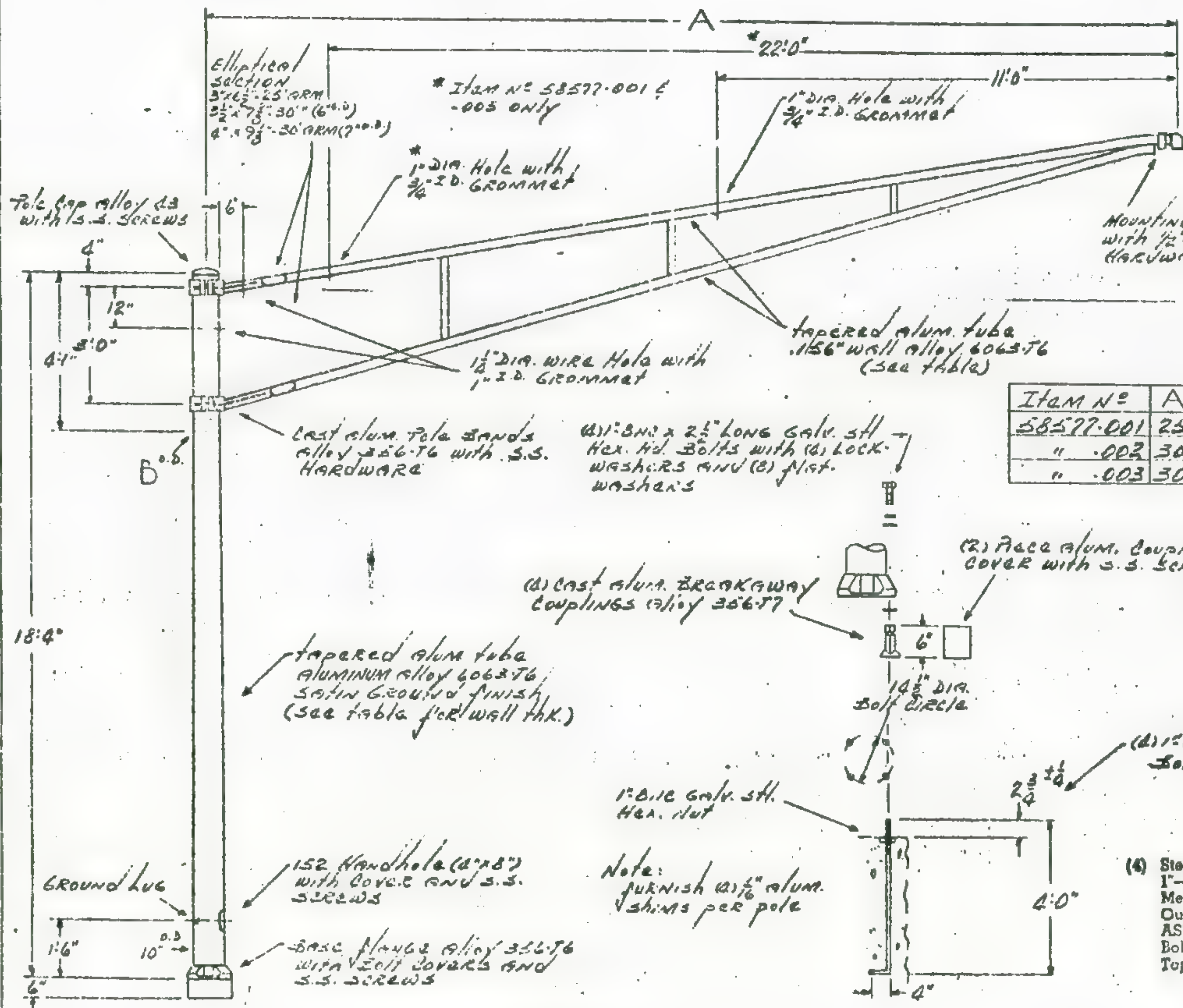
(4) Steel Anchor Bolts with
1"– 8 NC rolled threads.
Mean dia. of Rod Stock: 0.908"±.011"
Out of Round Tolerance: ±0.012"
ASTM A36 Steel: Min. Yield 50,000 psi
Bolts also meet ASTM A307, Grade A
Top 13" Galvanized per ASTM A153

REVISIONS	DATE

hanco

TITLE 22'6" traffic Poles
CUSTOMER "
SCALE ½" = 1'2" DATE 8-23-74
BY L.W. DWG. NO.
CHK'D B58573

B58573



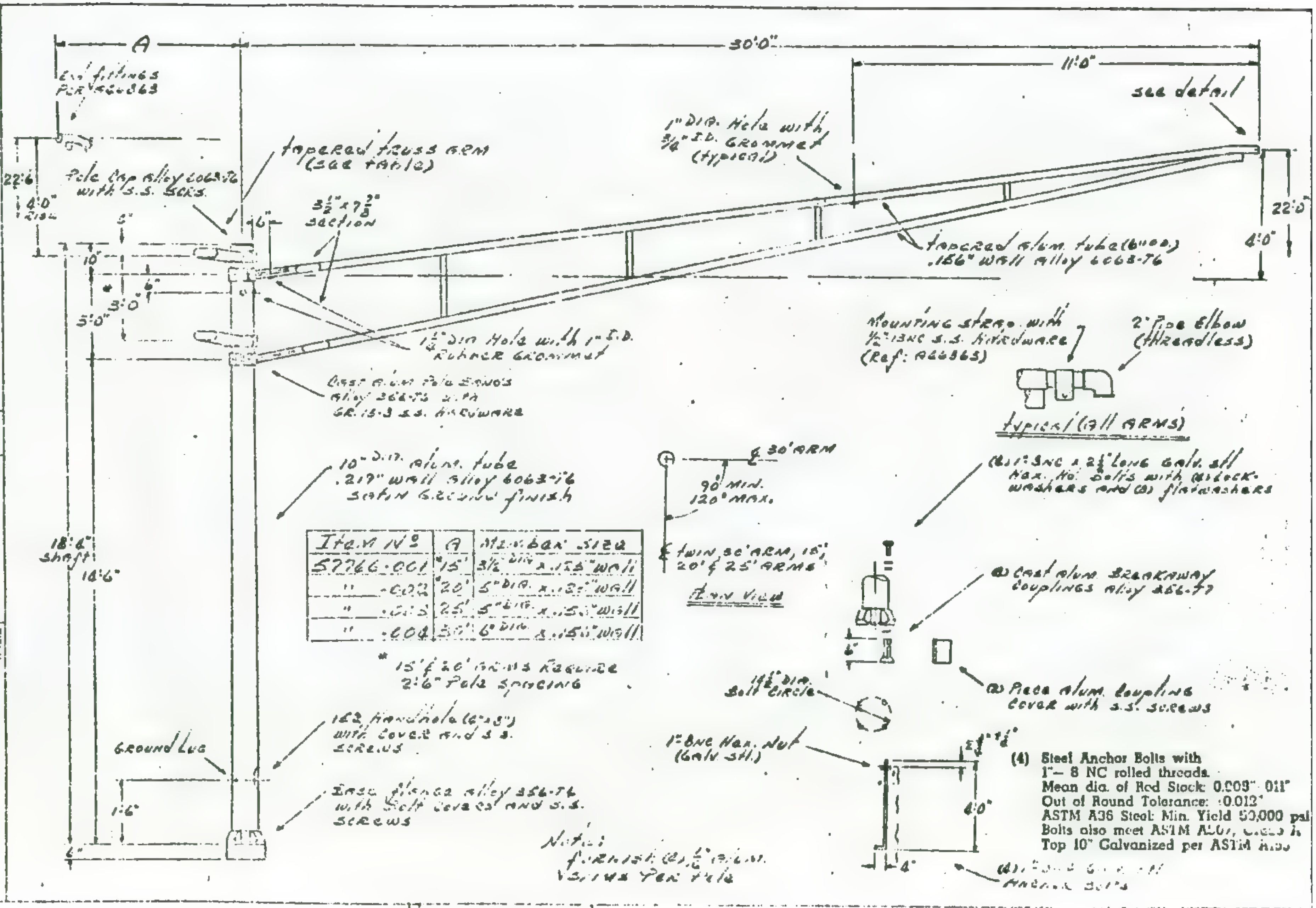
Item No	A	B	Brkt Memb. Size	Shaft Wall
58577-001	25'	8"	5" O.D. x .156" Wall	.188"
" -002	30'	9"	6" O.D. x .156" Wall	.219"
" -003	30'	9"	7" O.D. x .156" Wall	.219"

(4) Steel Anchor Bolts with
1"– 8 NC rolled threads.
Mean dia. of Rod Stock 0.908"±.011"
Out of Round Tolerance -0.012"
ASTM A36 Steel Min. Yield 50,000 psi
Bolts also meet ASTM A307, Grade A
Top 10" Galvanized per ASTM A153

REVISIONS | DATE

TITLE 22'6" traffic poles
CUSTOMER
SCALE 3/8"=1'2"
DATE 8-28-74
BY L.W.
DWG. NO. B58577
CHK D

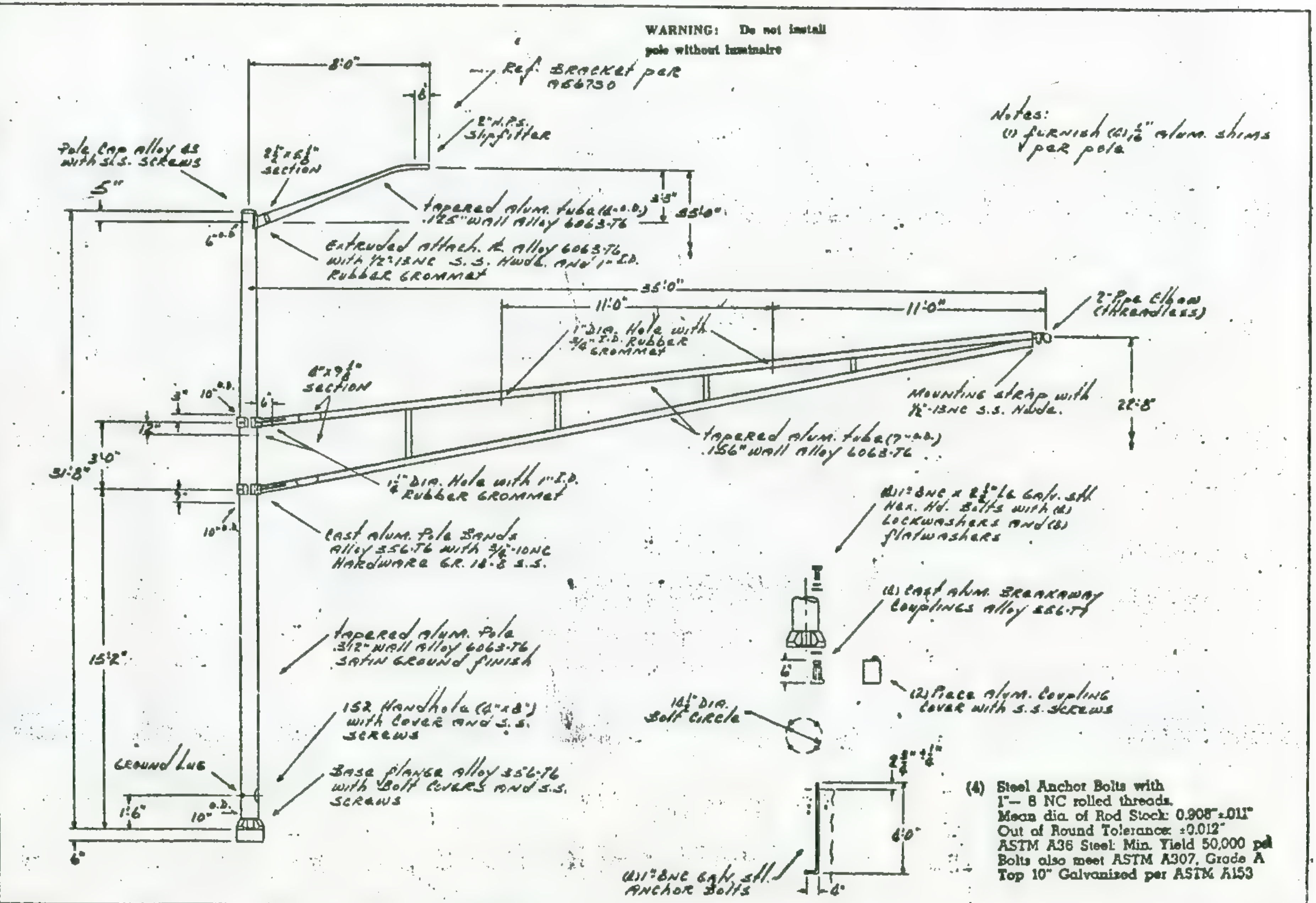
B58577



Item No	A	Member size
57766-001	*15'	3½" DIA. x .125" wall
" -002	20'	5" DIA. x .125" wall
" -003	25'	5" DIA. x .156" wall
" -004	30'	6" DIA. x .156" wall

* 15' & 20' arms require 2'6" pole spacing

B57766

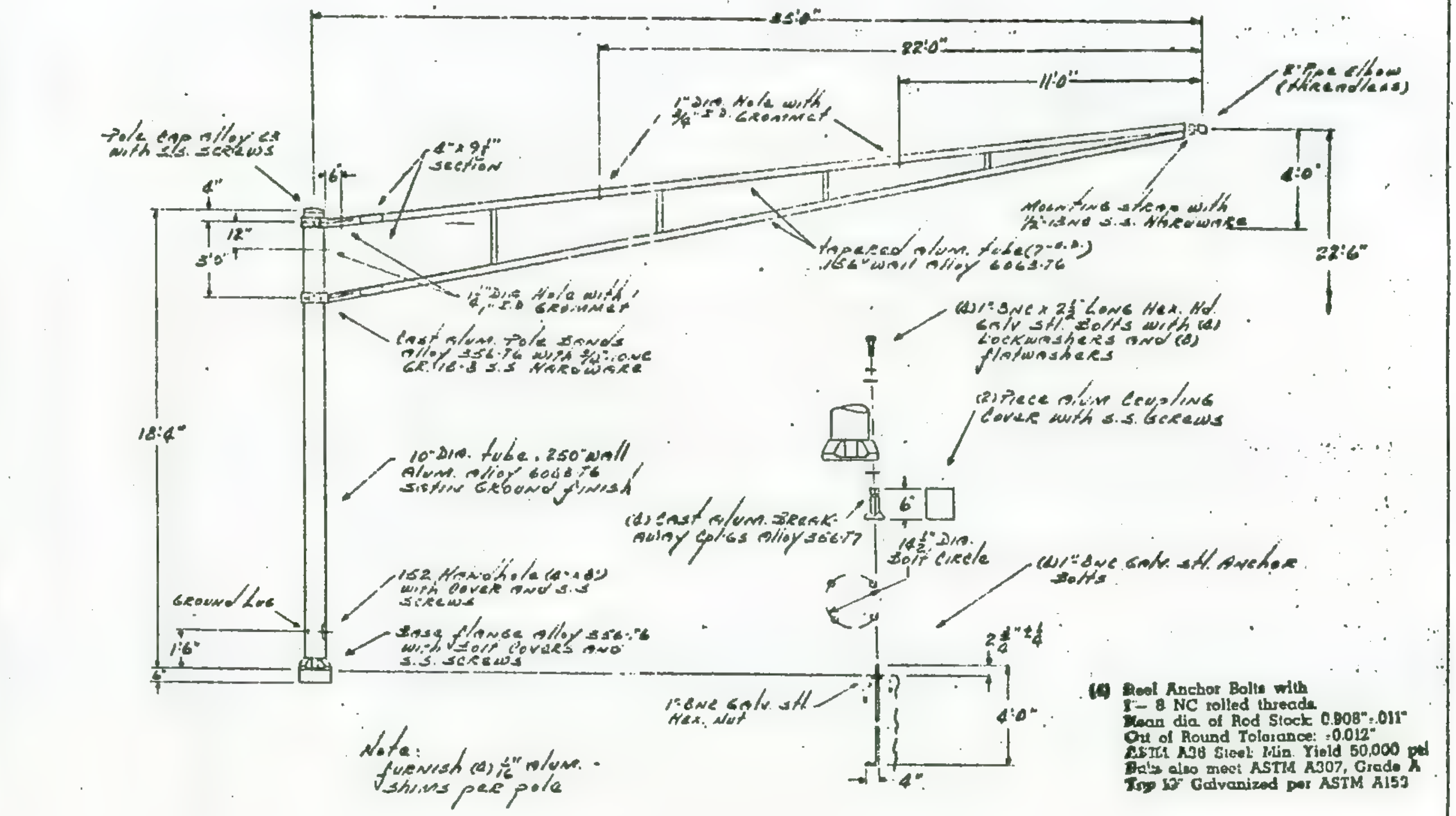


NO.	REVISIONS	DATE
1	shaft drilling was single mast. & truss	11/20/74

hapco

TITLE: 35' Light & traffic Pole
CUSTOMER: City of Fort Wayne, Ind.
SCALE: N.T.S. DATE: 7-29-74
BY: L. W.
CHK'D:
DWG. NO. B58488

B58488



REVISIONS

REVISIONS	DATE

TITLE 22'6" traffic Poles

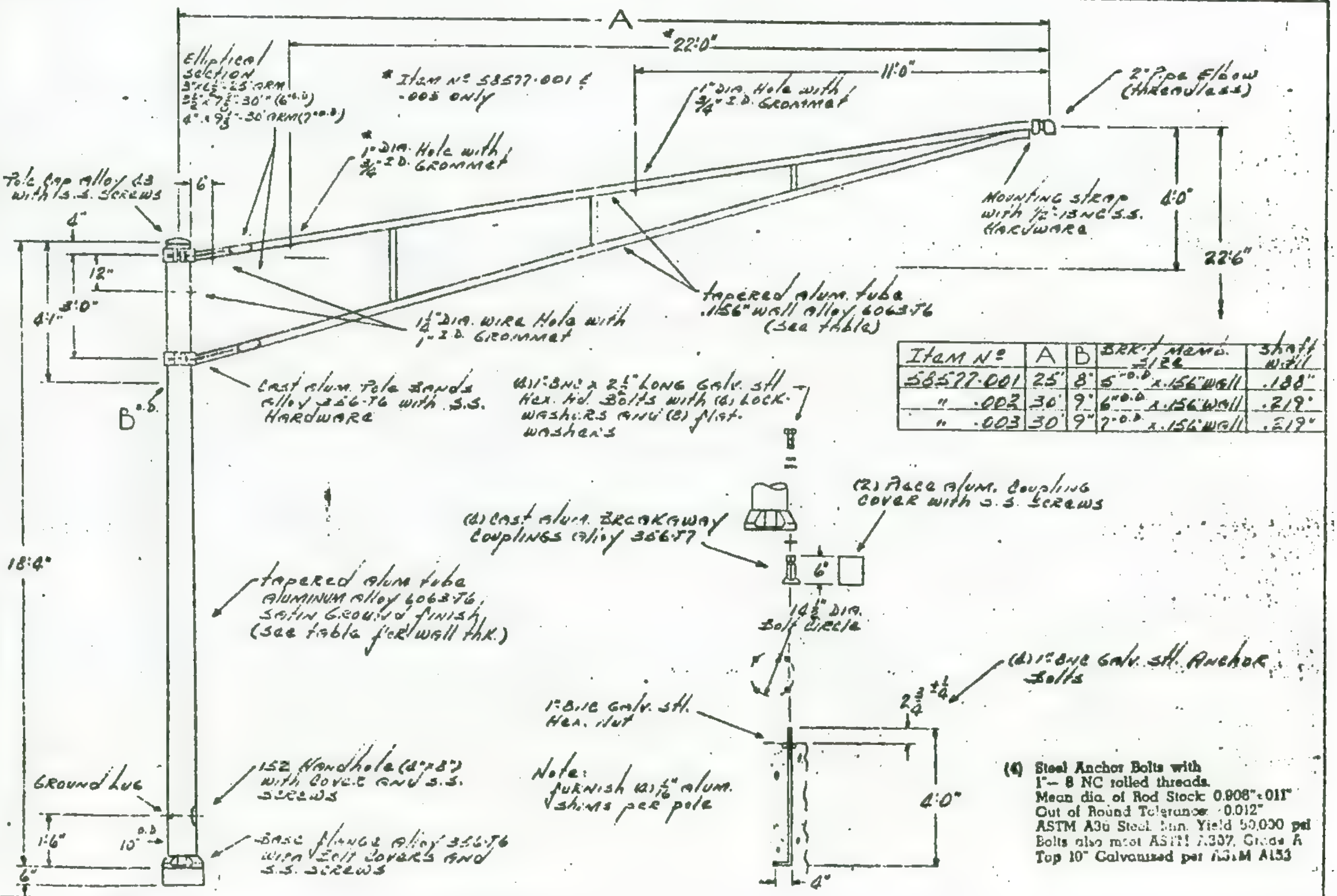
CUSTOMER "

SCALE 1/2"=1'-0" DATE 6-23-74

BY L.W. DWG. NO. B58573

CHK'D

B58573



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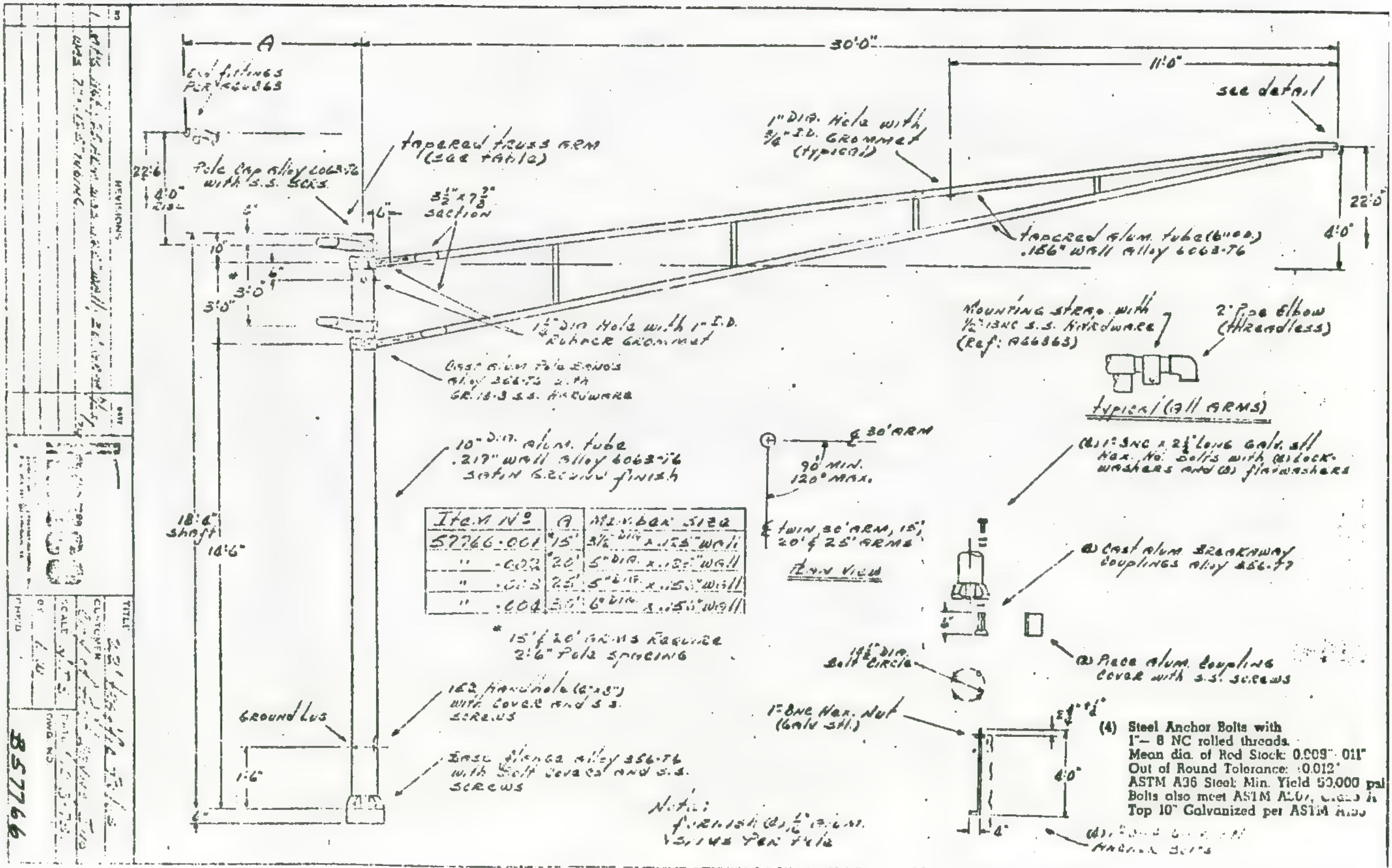
(4) Steel Anchor Bolts with
1" – 8 NC rolled threads.
Mean dia. of Rod Stock 0.908" ±.011"
Out of Round Tolerance 0.012"
ASTM A36 Steel Min. Yield 50,000 psi
Bolts also meet ASTM A307, Grade A
Top 10" Galvanized per ASTM A153

REVISIONS | DATE

TITLE 22'6" traffic poles
CUSTOMER
SCALE 3/8"=1'0" | DATE 8-28-74
BY L.W. | DWG. NO.
CHK'D | B58577

B58577



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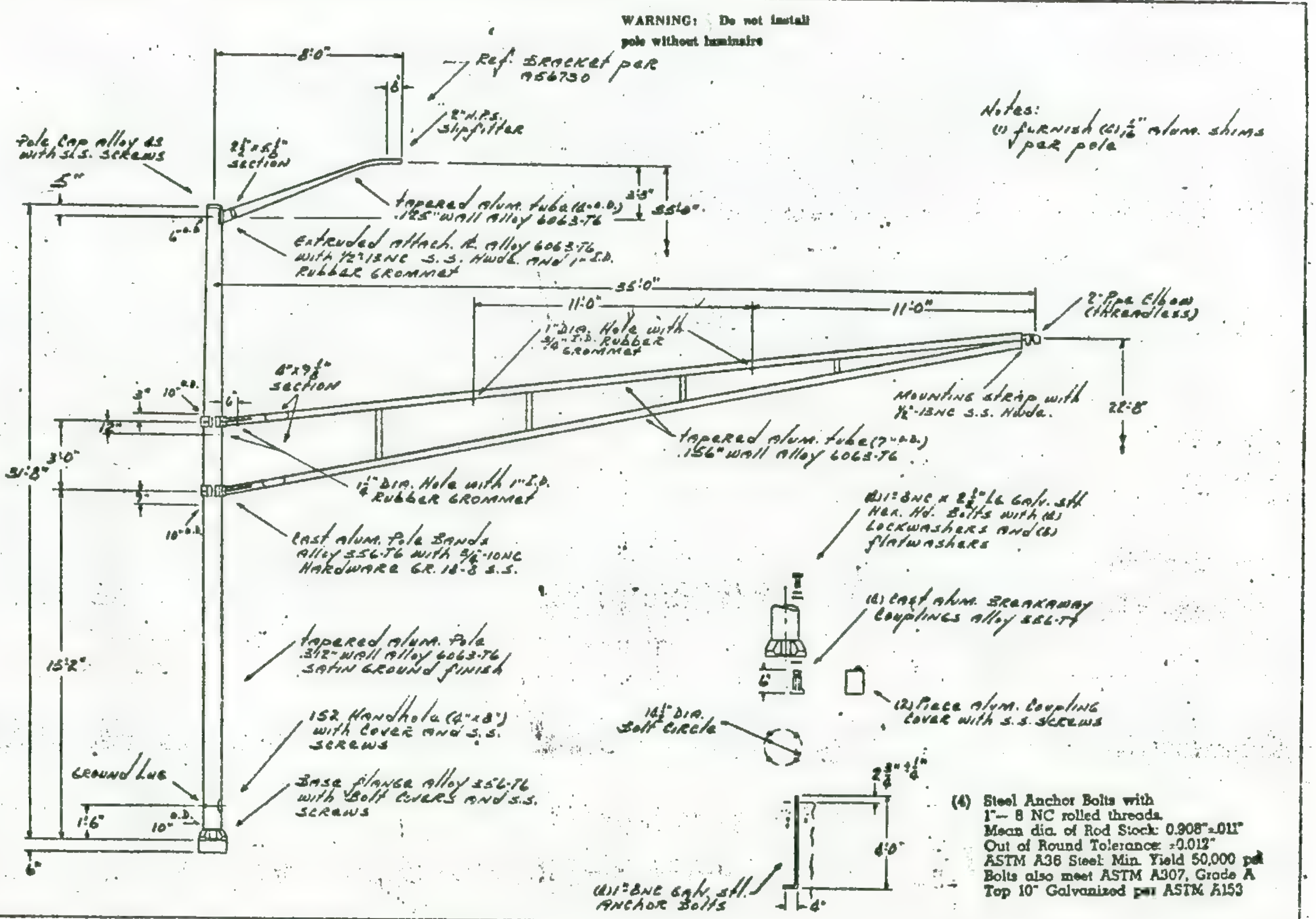
* 15' & 20' arms require 2'6" Pole spacing

B57766

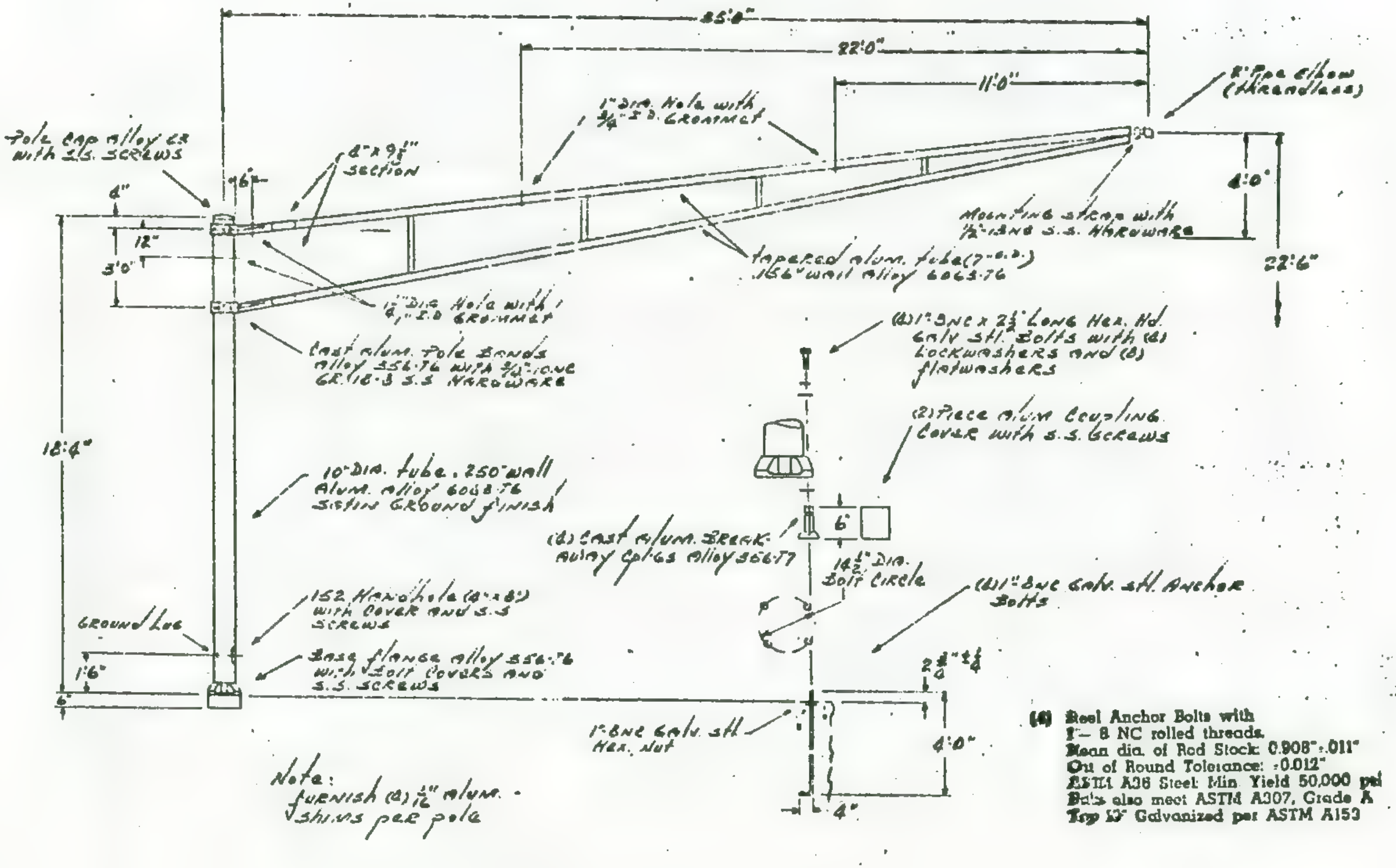


NO.	REVISIONS	DATE
1	shaft drilling was single mount & truss	7/30/74

Hapco

TITLE: 35' Light & traffic Pole
CUSTOMER: City of Fort Wayne, Ind.
SCALE: N.T.S. DATE: 7-29-74
BY: L.W. DWG. NO.: B58488
CHK'D

B58488



REVISIONS

DATE

TITLE 22'6" Traffic Poles

CUSTOMER "

SCALE 1/2" = 12'

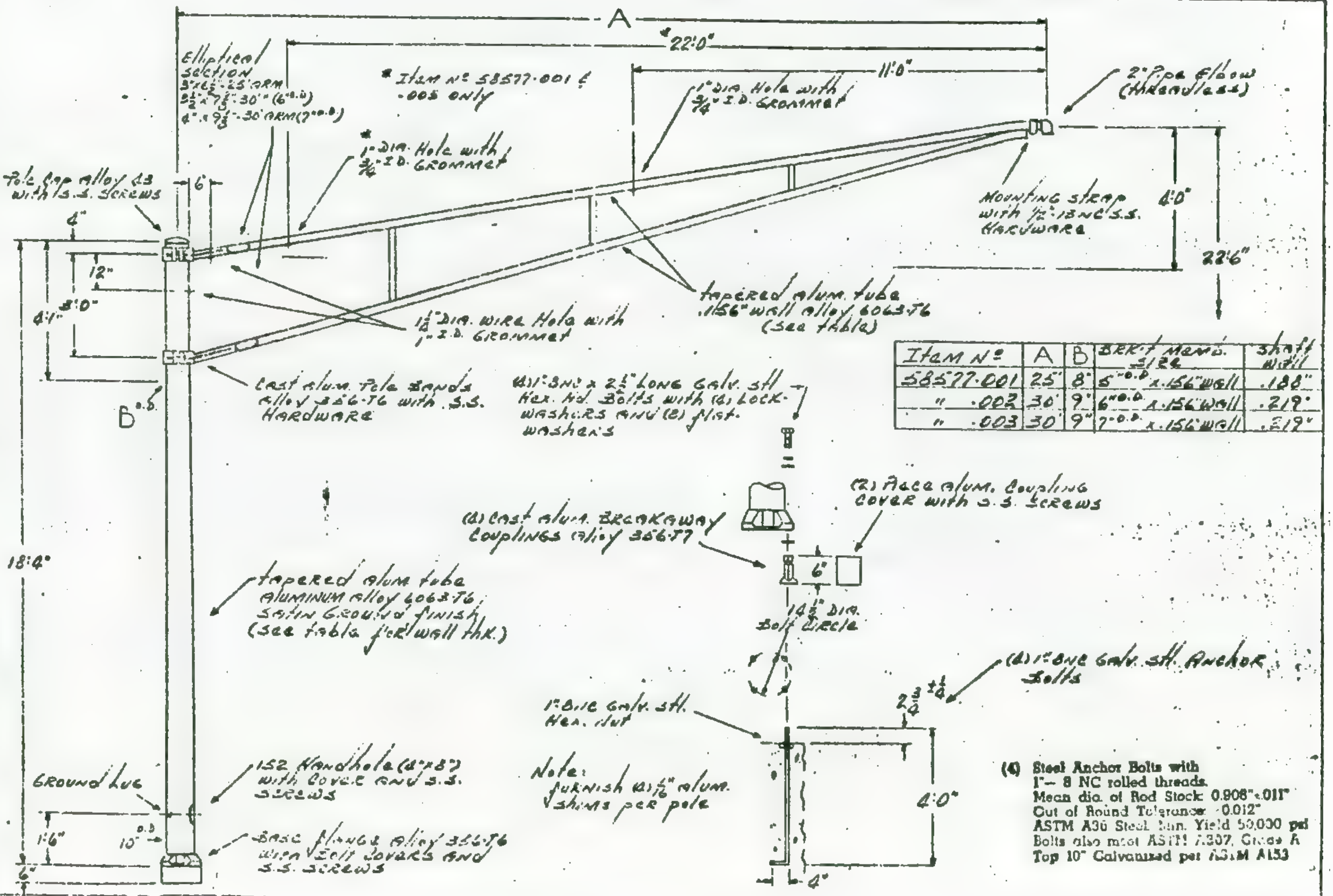
DATE 6-23-74

BY L.W.

DWG NO. B58573

CHK'D

B58573



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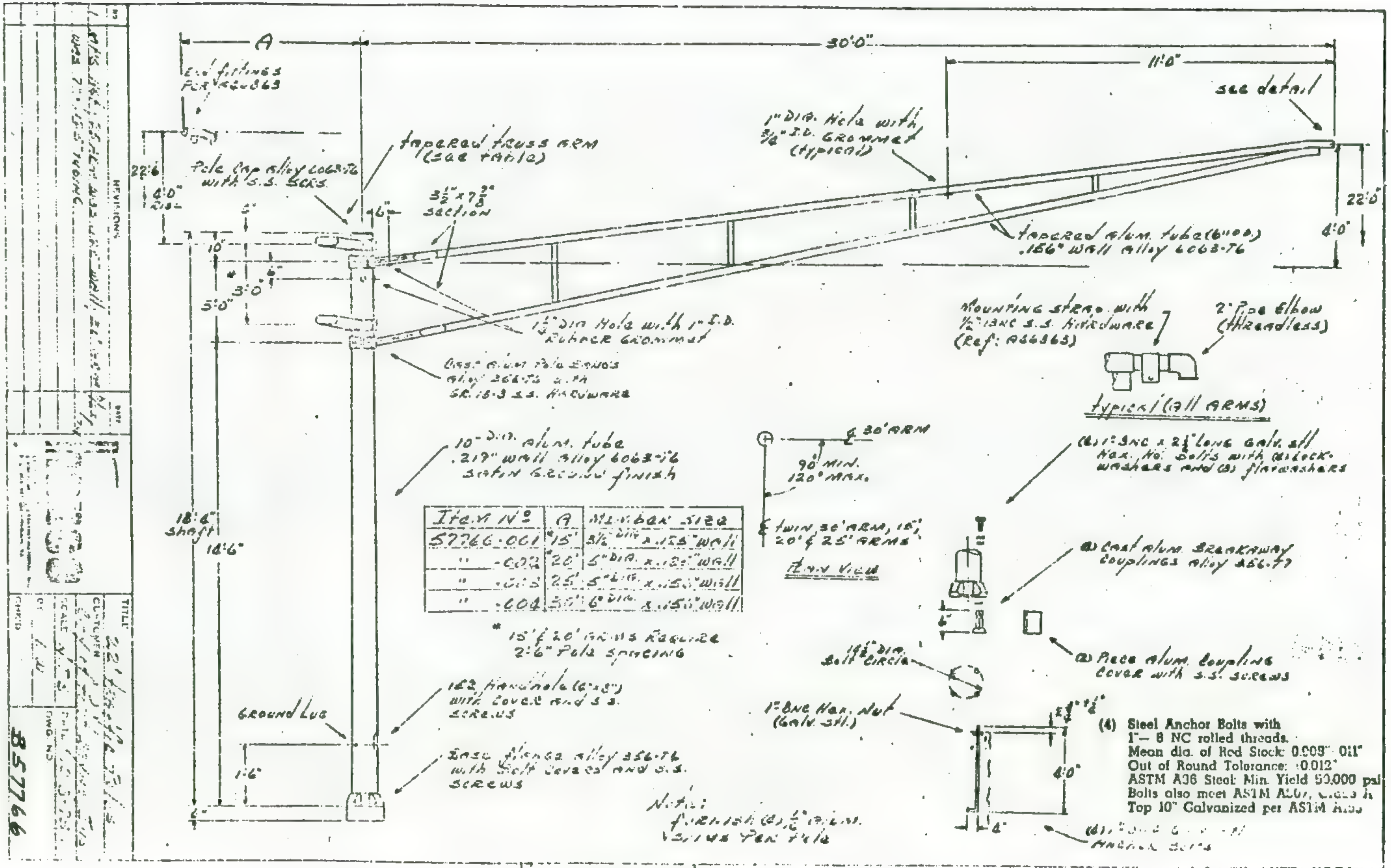
Bolts also meet ASTM A307, Grade A
Top 10" Galvanized per ASTM A153

REVISIONS | DATE

TITLE 22'6" traffic poles
CUSTOMER
SCALE 3/8" = 1'0" DATE 8-28-74
BY L.W. DWG. NO.
CHK'D

B58577

B58577



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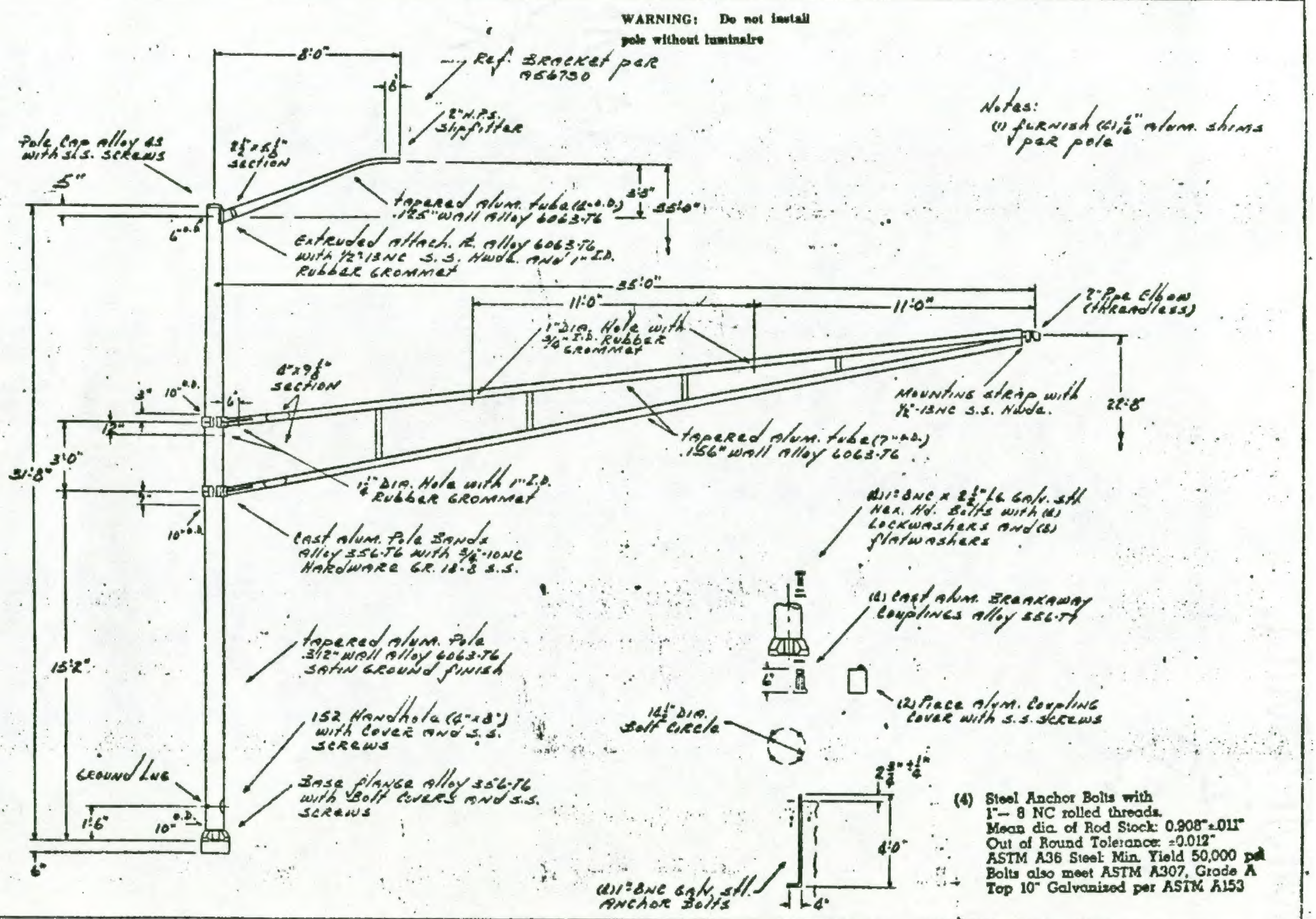
B57766



NO.	REVISIONS	DATE
1	shaft drilling was single mast. & truss	7/30/74

Hapco

TITLE: 35' Light & Traffic Pole

CUSTOMER: City of Fort Wayne, Ind.

SCALE: N.T.S.

DATE: 7-29-74

BY: L.W.

DWG. NO.: B58488

CHK'D:

B58488

Read the first time in full and on motion by GiaQuinta, seconded by Redd, and duly adopted, read the second time title and referred to the Committee on Finance (and the City Plan Commission for recommendation) and Public Hearing to be held afte due legal notice, at the Council Conference Room 128, City-County Building, Fort Wayne, Indiana, on ______, the ______, da of ______, 19___, at ______ o'clock ___.M., E.S.

DATED: 5-28-91

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Read the third time in full and on motion by Schmidt, seconded by Henry, and duly adopted, placed on its passage. PASSED ~~LOST~~ by the following vote:

	AYES	NAYS	ABSTAINED	ABSENT
TOTAL VOTES	7			2
BRADBURY	✓			
BURNS	✓			
EDMONDS	✓			
GiaQUINTA				✓
HENRY	✓			
LONG				✓
REDD	✓			
SCHMIDT	✓			
TALARICO	✓			

DATED: 6-11-91

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as ~~(ANNEXATION)~~ ~~(APPROPRIATION)~~ ~~(GENERAL)~~ (SPECIAL) ~~(ZONING MAP)~~ ORDINANCE ~~RESOLUTION~~ NO. S-136-91 on the 11th day of June, 19 91.

ATTEST

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

SEAL

Samuel J. Talarico
PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 12th day of June, 1991 at the hour of 1:30 o'clock P.M., E.S.T.

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Approved and signed by me this 13th day of June 19 91, at the hour of 10:30 o'clock A.M., E.S.T.

P. Helmke
PAUL HELMKE, MAYOR

DIGEST SHEET

TITLE OF ORDINANCE: Special

DEPARTMENT REQUESTING ORDINANCE: Purchasing

SYNOPSIS OF ORDINANCE: An ordinance for the City of Fort Wayne Traffic Engineering Dept. approving the award of Ref. No. 1562 for traffic signal supports and hardware. The cost reflects the lowest and most responsive of two (2) vendors.

IF NOT LOWEST, WHO WAS AND WHY WERE THEY NOT AWARDED:

EFFECT OF PASSAGE: Traffic signal supports for the traffic signal modernization project at Bluffton Rd. and Sandpoint Rd; the new signal installation at Goshen Rd. and Independence Dr. and the widening of the new intersection of Bluffton Rd. and Lower Huntington Rd.

S-91-05-23

IF REPLACEMENT, WHAT NECESSITATES:

EFFECT OF NON PASSAGE: Goshen Rd. and Independence Dr. will continue to operate as a stop-controlled intersection resulting in increased accidents and increased delays for Centennial Park traffic. The existing poles at Bluffton Rd. and Lower Huntington Rd. will have to be relocated, resulting in inadequate mast arm lengths to provide the proper signal indication coverage for two approaches.

PRIOR APPROVAL REQUESTED: YES

MONIES INVOLVED: Elliott Equipment Corp. $22,096.00

PRICE AGREEMENT: No

PURCHASE ORDER: Yes

ACCOUNT INFORMATION: Traffic Engineering Dept. 138-011-OFFC-4265 $18,288.00
010-006-BOPW-4433 $3,808.00

PRIOR APPROVAL: DATE: 5-28-91
(IF APPLICABLE)

BILL NO. S-91-05-23

REPORT OF THE COMMITTEE ON FINANCE

MARK E. GiaQUINTA, CHAIRMAN
DONALD J. SCHMIDT, VICE CHAIRMAN
BRADBURY, REDD, BURNS

WE, YOUR COMMITTEE ON FINANCE TO WHOM WAS REFERRED AN (ORDINANCE) (~~RESOLUTION~~) approving the awarding of Reference #1562 by the City of Fort Wayne, Indiana, by and through its Department of Purchasing and ELLIOTT EQUIPMENT CORP. for the Traffic Engineering Department

HAVE HAD SAID (ORDINANCE) (~~RESOLUTION~~) UNDER CONSIDERATION AND BEG LEAVE TO REPORT BACK TO THE COMMON COUNCIL THAT SAID (ORDINANCE) (~~RESOLUTION~~)

DO PASS	DO NOT PASS	ABSTAIN	NO REC
Mark E. GiaQuinta			
C R Edmond			
[signature]			
D J Schmidt			
[signature]			

DATED: 6-11-91.

Sandra E. Kennedy
City Clerk